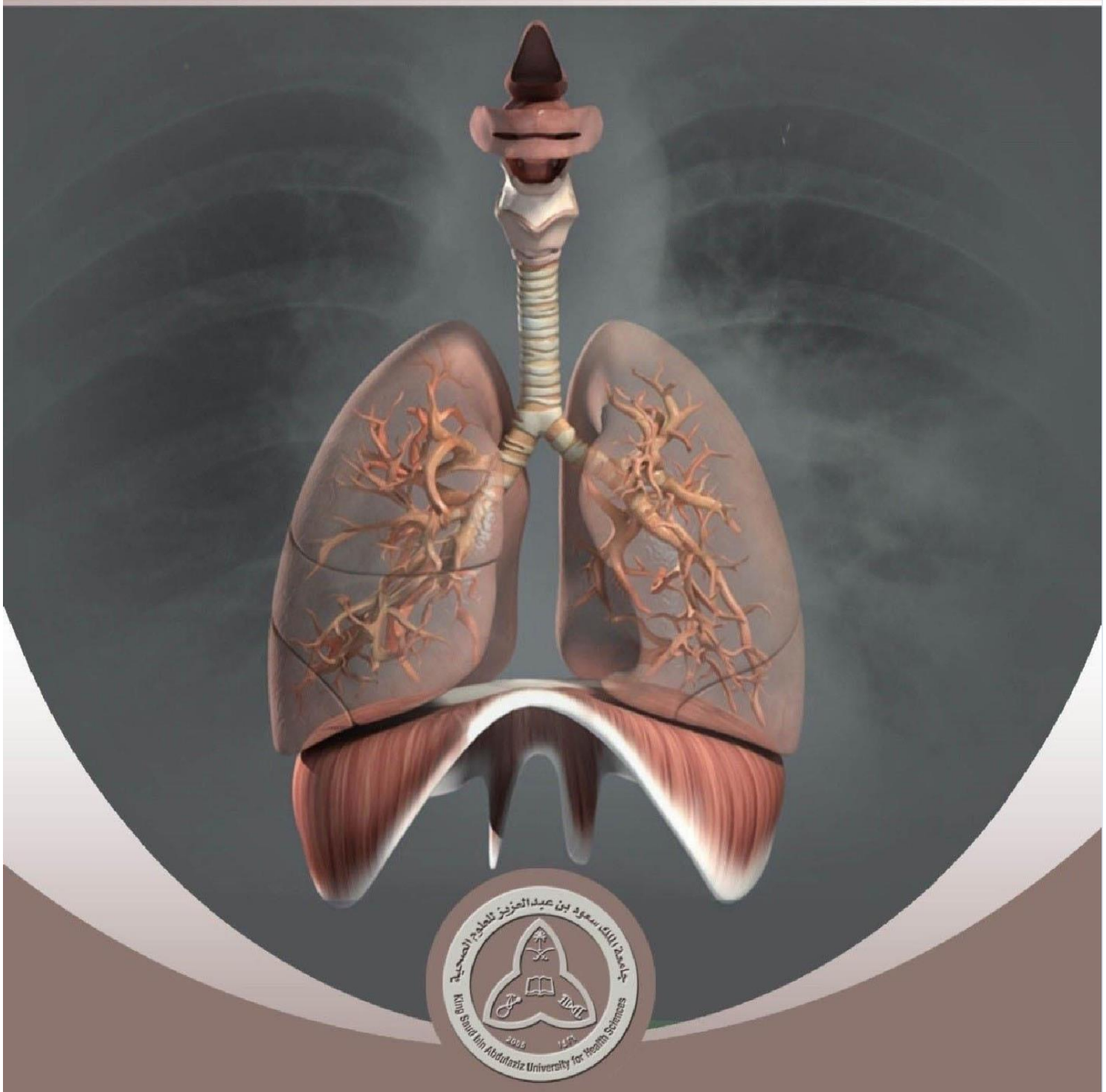
Respiratory Sciences

RESP - 312



2021-2022

King Saud bin Abdulaziz University for Health Sciences
College of Medicine
Jeddah- Female Side

Block Title	:	Respiratory Sciences
Block Code & Number	:	RESP - 312
Credit Hours	:	10
Target Students	:	Batch 6
Block Duration	:	9 weeks
Block Dates	:	29 Aug– 27 Oct. 2021
Female Block Coordinator	:	Dr. Mohammed Bakhsh
Basic Medical Sciences Coordinator	:	Dr. Reem Busaeed

Block Description

This block focuses on the respiratory system in an integrated approach. It introduces students to basic and clinical sciences related to this system, in addition to common respiratory health problems. The physiology and mechanics of breathing are the focus of this block with subsequent exposure to common obstructive and restrictive lung diseases. Public health and community issues related to pulmonary problems are also discussed.

For the students who are assigned to present CDT and PPD topics, please check with the CDT and PPD Coordinators respectively at the beginning of the block. Kindly, remember that students should approach the CDT and PPD coordinators.

Weekly learning outcome of the block

Week1:

- Describe the development of the respiratory system, pericardioperitoneal canals and diaphragm
- Describe the detailed gross anatomy, the blood supply, innervation, of the thoracic wall, the relevant structures to the mechanism of gas exchange and the diagram.
- Describe the detailed gross and surface anatomy of the mediastinum, thoracic cavity, pleura, and lower respiratory tract system
- Describe the role of the emergency medicine practioners to stablise, evaluate, treat and arrange disposition for all patients presenting to the emergency department
- Explain the mechanics of breathing
- Describe the range of possible psychological effects in patients that suffer traumatic injury with special reference to post traumatic stress disorder
- Explain the physiological mechanisms of gas exchange in the lung and flow of oxygen from lungs to tissues and CO2 from tissues to lungs.
- Describe the main respiratory symptoms and signs and their pathophysiology.
- Identify the anatomical organization of the thoracic cage, respiratory muscles, lower respiratory tract, lungs and pleura
- Identify and Illustrate the normal histological structure of the respiratory pathways
- Describe the contribution of road traffic crashes to injury related death and disability and prevention strategies in Saudi Arabia and internationally
- Communicate properly to undertake comprehensive history from a patient with serious respiratory problem in ER and break bad news to patients or relatives.
- Perform a systematic examination of the respiratory system on a real or simulated patient.
- Integrate relevant biomedical, clinical, behavioral and social knowledge in relation to the week problem

Week 2:

- Describe the anatomical organisation of the scalp, face and neck; the bones, joints (eg temporomandibular) and muscles (facial expression, neck and mastication) associated with scalp, face and neck
- Explain how oxygen and carbon dioxide are transported in the blood and the role of hemoglobin in this process.
- Describe the normal physiological regulation of breathing and disease states which alter normal control of respiration
- Explain the Immunobiology of IgE antibody responses, including their role in protective immunity to parasites and in hypersensitivity to environmental and other allergens.
- Describe the four main types of allergic reactions and atopy, clinical features, investigations and management of allergic or atopic pediatric patients.
- Explain the pathophysiological mechanisms, the factors responsible and theories for the development of asthma and the role of antiinflammatory agents.
- Describe the lung function tests used commonly in the assessment of patients with respiratory disease"
- Describe types, clinical features and management of common respiratory illnesses and emergencies in children.
- Explain the different drugs used to dilate airways, their mechanism of action and the clinical conditions which they are used to treat
- Identify the normal and common pathologies of the respiratory system on chest X-ray.
- Describe the role of preventive measures to improve the asthma outcome and the role of the primary doctor and patient partnership in management of asthma.

- Carry out pulmonary function test in the lab
- Record breathing patterns and respiratory rates
- Describe and Identify the macroscopic and microscopic appearance of the pathology of the airways, with particular reference to asthma
- Identify the structures of the scalp, face and neck; the bones, joints (e.g. temporomandibular) and muscles (facial expression, neck and mastication) associated with scalp, face and neck
- Communicate properly to assess a patient with asthma showing him the treatment, prevention plan and the optimal use of the suitable inhaler devices.
- Practice the use of the various devices, including metered dose inhalers, turbuhalers, accuhaler, nebulizer and peak flow meters for use at home
- Integrate relevant biomedical, clinical, behavioral and social knowledge in relation to the week problem

Week 3:

- Describe the normal and abnormal development of human head and neck.
- Describe the detailed anatomical organization and major parts of the nose, sinuses and mouth; blood supply, lymphatic drainage and innervation
- Explain the mechanism of hypoxia, hypercapnia, dyspnea and their effects on the body
- Explain the major pathophysiological features of airways dysfunction in COPD
- Describe the causal relationship with particular reference to smoking and respiratory disease.
- Describe the effects of cigarette smoking on the respiratory system, the related respiratory diseases and common problems smoker face with Nicotine withdrawal.
- Identify on a specimen the major features of the head & neck: nose, sinuses, mouth including blood supply and neural innervation.

- Describe and identify the pathological features of the diseases associated with chronic airflow limitation; the pathological features associated with chronic airflow limitation; the microscopic and macroscopic features of chronic bronchitis and emphysema.
- Take comprehensive history in a patient with chronic cough and shortness of breath
- Perform a focused examination of chest and peripheral signs of respiratory disease
- Detect and interpret normal and abnormal clinical findings in the examination of the respiratory system
- Perform proper physical examination of a patient with chronic obstructive pulmonary disease (COPD).
- Perform pulmonary function test using spirometer under observation to diagnose and assess asthma.
- Integrate relevant biomedical, clinical, behavioral and social knowledge in relation to the week problem

Week 4:

- Explain the effect of tobacco as a major identifiable risk factor related to surgery and the perioperative period.
- Explain the mechanisms of interstitial and alveolar inflammation and of interstitial lung disease
- Explain the respiratory acid base balance and disorders and differentiate between a “normal” and “ abnormal” metabolic, respiratory responses and acute from chronic various acid base disturbance.
- Describe types, causes, pathogenesis of acute & chronic respiratory failure and their management
- Define the types, clinical features, investigations and management of interstitial lung diseases.
- Implement the basic principles of collecting and interpreting blood gas samples.

- Describe and identify the normal histology of the lung and the pathological appearance of chronic inflammatory response in the interstitium associated with extrinsic irritation, using the lung as a prime example.
- Perform and interpret pulmonary function test on a patient with restrictive lung disease.
- Through cases of patients with lung disease, explore the important aspects of common respiratory disease management: COPD severity, asthma control, CXR with cavity and consolidation
- On a mannequin, use common oxygen delivery devices such as oropharyngeal airways, bag, valve and mask, to deliver oxygen therapy; and the risk of overusing of oxygen
- Integrate relevant biomedical, clinical, behavioral and social knowledge in relation to the week problem

Week 5:

- Describe the gross and microscopic structure of pharynx, larynx and thyroid gland
- Describe the Normal anatomical organization and lesions of the cranial nerve system; their peripheral distributions including major branches and patterns of innervations and the functional fibres that each nerve may carry to target structures
- Describe the physiology of normal sleep.
- Outline the epidemiology, types, causes, clinical presentations, complications, diagnosis and differential diagnosis and management of sleep apnea and other common sleep disorders.
- Identify on a specimen the major features of the head & neck: pharynx, larynx, thyroid gland including blood supply and neural innervation.
- Understand how systems thinking can improve health care and minimize patient adverse events

- Properly undertake a comprehensive history from patients/ simulators with sleep disordered breathing.
- On a mannequin, practice comprehensive examination of the respiratory system and interpret normal and abnormal features of chest X- rays.
- Integrate relevant biomedical, clinical, behavioral and social knowledge in relation to the week problem.

Week 6:

- Describe in detail the anatomical organisation and function of the greater ear complex; the internal, middle and external ears.
- Describe the methods of collection and examination of specimens for diagnosis of pneumonia in Saudi Arabia.
- Explain the pathogenesis of atypical and typical bacterial pneumonia (lobar and bronchial)and the pathological features of pneumonia and bronchopneumonia.
- Outline the causes, clinical features, diagnosis, management and prevention of pneumonia.
- Describe the anatomical organisation of the auditory pathways.
- Identify the normal radiographic anatomy of the head and neck on MRI, CT, Ultrasound, Plain X-rays, Angiography, Nuclear Medicine.
- Explain the use of antimicrobial agents in the treatment of lower respiratory tract infections caused by bacterial, fungal, mycobacterial and viral agents.
- Explain the clinical importance of anatomical abnormalities in the head and neck.
- Identify the structures; bones, cartilages, muscles, blood supply and nerve supply of the ear.
- Perform focused physical examination of a patient/child with ENT problems.

- Describe the nature and mechanisms of action of vaccines, their effectiveness and impact on the health of population, and the vaccination program in Saudi Arabia (children and adults).
- Integrate relevant biomedical, clinical, behavioral and social knowledge in relation to the week problem.

Week 7:

- Explain the causes, triggers, mechanisms of cough and the role of of cough receptors in the respiratory tract.
- Explain the role of genetics in the development of Cystic Fibrosis, the importance of genetic counseling, prenatal diagnosis and genetic variation between populations.
- Describe the etiology and pathogenesis of multi-organ damage in cystic fibrosis; the pathogenesis and the clinical features of cystic fibrosis; the multidisciplinary team approach to management of cystic fibrosis; and the impact of chronic disease on child and family
- Explain causes, routes of transmission, classification, and pathophysiology of tuberculosis.
- Explain the immune responses to bacterial infections and the role of macrophage and T helper cells in controlling Tuberculosis infections
- Describe the commonly used antituberculous drugs regimens, and their side effects.
- Outline the clinical features, diagnostic tools and principles of management of tuberculosis
- Describe types, clinical features, diagnostic methods, and management of extra-pulmonary TB and the differences between them and pulmonary TB.
- Identify the microscopic structure, methods of isolation and culture and other laboratory diagnostic methods of tuberculosis.
- Identify the structures of the respiratory system and ear.
- Undertake comprehensive history from a patient/simulator with tuberculosis or pneumonia .

- Describe the screening, control and preventive methods of tuberculosis and the role of the community.
- Describe the myths and taboos related to TB in Saudi Arabia and the counseling strategies to patients and families.
- Integrate relevant biomedical, clinical, behavioral and social knowledge in relation to the week problem.

Week 8:

- Define and explain multidisciplinary care of cancer patient.
- Describe types, pathogenesis and treatment of paraneoplastic syndromes.
- Explain the causes, risk factors (e.g. smoking), pathogenesis, diagnosis and the incidence of lung cancer in Saudi Arabia.
- Describe and identify the pathological features of the squamous cell carcinoma, small cell carcinoma and adenocarcinoma of the lung.
- Perform clinical assessment in patients with lung cancer.
- Integrate relevant biomedical, clinical, behavioral and social knowledge in relation to the week problem.

References

The following is not a comprehensive list of all the references for this block, nor are you restricted to these only. In addition, the student should consult with the various instructors and resource people for this block and utilize all available material whether in hardcopy or online. This is in addition to personal preferences on each subject.

1. **Anatomy (Embryology)**
    - Langman's Medical Embryology, 14th edition (2018), International Edition by T.W.Salder
    - The Developing Human, 10th Edition (2019) By Keith L. Moore, T .V.N (Vid) Persaud, and Mark G. Torchia

2. **Anatomy (Histology)**
    - Wheater's Functional Histology: A Text and Colour Atals, 6th Edition by Barbara Young, Geraldine O'Dowd, Phillip Woodford
    - Color Textbook of Histology, 3rd edition By Leslie P. Garnter, James L. Hiatt

3. **Gross Anatomy**
    - Clinically Oriented Anatomy 8th Edition 2017 by Keith L. Moore; Arthur F. Dalley, II; Anne M. R. Agur
    - Gray's Anatomy: The Anatomical Basis of Clinical Practice, 14th edition 2015 by Susan Standring

4. **Anatomy (BCS)**
    - Grant's Atlas of Anatomy, 14th edition (2016), International Edition by Anne M.R. Agur and Arthur F. Dalley II
    - Anatomy TV

https://www.anatomy.tv/new_home.aspx?startapp=&startres=&startstudyguide=&S=&ReturnUrl=&lpuserid=&&lm=ip&si=13619759

5. **Neuroanatomy**

- Snell's Clinical Neuroanatomy, 8th Edition (2018) by Ryan Splittgerber
- Barr's The Human Nervous System: An Anatomical Viewpiont, 10th Edition (2013) by John Kiernan and Raj Rajakumar

6. **Physiology**

- Human Physiology Cells to Systems by Lauralee Sheerwood
- Textbook of Medical Physiology by Guyton and Hall

7. **Pharmacology**

- Lippincott Illustrated Reviews: Pharmacology (Lippincott Illustrated Reviews Series) , 7th edition (2019), North American Edition by Karen Whalen PharmD BCPS (Author)

- Rang & Dale's Pharmacology, 8th Edition (2016). Authors: James Ritter Rod Flower Graeme Henderson Humphrey Rang
- Katzung & Trevor's Pharmacology Examination and Board Review, 12th Edition (Lange Medical Books). By Anthony Trevor (Author), Bertram Katzung (Author), Susan Masters (Author), Marieke Knidering-Hall (Author)

8. Immunology

- Cellular and Molecular Immunology 9th Edition by Abul Abbas Andrew H. Lichtman Shiv Pillai
- Kuby Immunology 7th Edition by Judith A. Owen, Jenni Punt, Sharon A. Stranford
- Clinical Immunology 1st Edition. Part 1 and part 2 by Pravash Sen Gupta

9. Microbiology/Infectious Disease

- Medical Microbiology, 8th Edition, Authors: Patrick Murray Ken Rosenthal Michael Pfaller
- Sherris Medical Microbiology, Fifth Edition by Kenneth Ryan (Author), C. George Ray (Author), Nafees Ahmad (Author), W. Lawrence Drew (Author), James Plorde (Autho)

10. Biochemistry

- Denise R. Ferrier. Lippincott's Illustrated Reviews: Biochemistry (6th Edition).
- Thomas M. Devlin (Ed). Textbook of Biochemistry with Clinical Correlations 7th Edition

11. Pathology

- Robbins Basic Pathology, 10th edition; Authors: Vinay Kumar, Abdul K Abbas, Jon C Aster
- Rubin's Pathology; Clinicophatologic Foundation of Medicine; 7th Edition Authors: David S. Strayer, Emanuel Rubin

12. Clinical Books:

(To Be Apdated By The Chief Coordinator)

- Alastair J , et al. .Macleod's Clinical Examination 14th Edition(2018) Elsevier
- Lynn S. Bickley .Bates' Guide to Physical Examination and History Taking 12th Edition(2017) Lippincott William & Wilkins
- Lechner A , et al. Respiratory: An Integrated Approach to Disease (2012) by The McGraw-Hill Companies, Inc.
- Jameson J., et al. Harrison's Principles of Internal Medicine 20th Edition(2018) McGraw-Hill Education

STUDENT ASSESSMENT

Block Assessment Requirements

In order to pass a Phase II Block, a student must obtain a minimum final block grade of D. This grade is a composition from several block requirements, which can be subdivided as:

- Continuous assessment
- End-of-block assessment

1. Attendance Requirements

Students are required to attend no less than 75% of all educational activities during a block. This includes tutorial groups, lectures, skills training sessions, and theme sessions. Your attendance will be recorded during all sessions. Failure to meet this requirement without a valid explanation will result in exclusion from the final examination.

2. Continuous Assessment

Continuous assessment accounts for 40% of the final block grade. The following instruments are used for continuous assessment during this block:

- PBL Participation (14%)
- Written Mid-Term Examination (23%)
- PPD, CDT, EBM, Progress Test (3%)

2.1 PBL Participation

We feel that a mere presence at the PBL tutorials is not enough to make each session a success, but that the effectiveness of tutorial sessions depends upon your preparation efforts both at home and during the meetings. Therefore, we will formally evaluate the extent of your participation during the PBL sessions.

During each session, your individual performance will be evaluated by your tutor using PBL participation assessment sheet. The tutors are instructed to evaluate the extent of your preparation thoroughly between the session and the extent of your contribution during the individual PBL session based on the following four competency areas:

1. Participation and communication skills
2. Cooperation/Team-building skills
3. Comprehension/Reasoning skills
4. Knowledge/Information gathering skills

Your grade for each session depends upon your performance during the individual PBL session. The grade can be a “1-14”. Absentees will be given a score of zero “0”
if no justified reason, average If there’s reason for the purpose of summative assessment

Performance key:

12-14 – Outstanding; **9-11 – G**ood; **6-8 -** Average; **3-5 -** Below Average; **1-2 –** Poor;
0 - Absent

A block contains several problems containing 2 sessions for each problem, so the maximum amount of participation points you are able to obtain will be: No. of Problems X 2 X average PBL sessions scores.

Your tutor can give you more information about the evaluation of your participation.

Participation in PBL sessions accounts for 14% of the total grade for the Block. Students who are late for more than 10 minutes will be marked as absent "0" for the session and will have a score of zero unless the student submits a written excuse which must be approved by the Assistant or Associate Dean of the Academic & or Student Affairs.

2.2 Mid-Block Written Examination

A Mid-Block examination will be conducted covering all the sessions delivered during that period. The examination will consist of 46 MCQs and will count 23% of total continuous assessment mark. The duration of the written examination is based on the formula 2 minutes per MCQ.

2.3 CDT, PPD and EBM

This assessment will consist of 06 MCQs, 2 from each discipline. The exam will be conducted along with the Final Written Examination and carry 3% of your continuous assessment mark.

3. End-of-Block Examination

The end-of-block examination will consist of:

a. A written examination
b. Clinical Exam and
c. OSPE (Computer Slides/Dissection Hall Exam)

3.1 Written Examination

The content of the written end-of-block examination will be related to all sessions delivered throughout the block. This assessment will consist of 60 MCQs in addition to CDT, PPD and EBM MCQs.

The duration of the written examination is based on the formula 2 minutes per MCQ.

3.2 Clinical Reasoning Examination (Former OSCE)

CRE will consist of 30 MCQs.

The length of Clinical Reasoning Examination is based on the formula 2 minutes per MCQ.

3.3 OSPE

OSPE will test your deeper understanding of the basic sciences.

- It will consist one or both of the following types of exams:
    a. Computer based exam.
    b. Dissection Hall exam.

- The duration of the OSPE is two minutes per station.

4. Progress Examination

KSAU-HS, COM may participate in the National Medical Programs' Progress Test. In that case all the students must take the test. Further details will be provided by the Academic Affairs in case of participation.

5. Calculation of the Final Grade

The final grade is a composition of the grades obtained for the specified block requirements, calculated according to the weight. The following table presents an overview of the block requirements and their weight in the final grade.

Stage	Method	Grade
Continuous Assessment (40%)	Written: 46 MCQs	23%
	PBL Participation	14%
	CDT, PPD & EBM +/- Progress test	3%
Final Assessment (60%)	Written: 60 MCQs	30%
	(CRE)	15%
	OSPE (Computer Slides + Dissection Hall Exam)*	15%

** In a block where there is no dissection hall exam the whole 15% will added to Computer Slides Exam*

6. Remedial

5.1 The remedial examination will be similar in content and structure to the failed examination and will carry a 100% score of the planned final exam.

The weightage of each exam result will be as follows: -

Written MCQs	50%
OSPE	25%
CRE	25%

Block Evaluation

- Student Feedback
- Tutor Feedback
- Student Results

WEEK 1			
Sunday, 29 Aug 2021 Orientation			
Time	**Session**	**Speaker**	**Type**
0900 – 1000	MRES: Introduction to Medical Research Blocks	Dr. Alaa Al Thubiti (Female Side) Dr. Alqassem Hakami (Male Side)	Virtual
1000-1010	Dean's and Associate Dean's Male and Female		
1010-1035	Academic Affairs	Ms. Sagga & Ms. Almohammadi	
1035-1100	Students Affrairs	Mr. Attas & Ms. Al Harbi	
1100-1115	Assessment Unit	Mr. Kashif	
1115-1130	Guidelines Academic Counseling	Ms. Rania Zahid	
1130-1145	Educational Technology Services	Mr. Abdullah Al Gahtani	
1145-1200	Security Department	Mr. Abdulraheem Abuzaglah	
1200-1215	Saftey Manegment Services	Eng. Zuhair Haosawi	
1215-1230	Well Students Center	Dr. Ahmed Alsaleh	
1330-1400	Orientation to Evaluation	Mr. Peter	
1400-1500	Introduction to Problem Based Learning	Mr. Anwar Khan	
Monday 30 Aug. 2021 Orientation			
0800 – 0900	Orientation to Personal and Professional	Dr. Bakhsh	Virtual
0900 – 1000	Orientation to Community Doctor Theme	Dr. Bakhsh	
1000 – 1100	Orientation to EBM (Evidence Based Medicine) and The Need For EBM	Dr. Hatim Jifree	
1100 – 1200	General Library Orientation	Mr. Hani Bana	
1300 – 1400	Introduction to Respiratory Sciences Block	Dr. Bader , Dr. Bakhsh , Reem Busaeed	
1400 – 1500	EBM Lecture: Asking The Right Questions (PICO)	Dr. Hatim Jifree	
Tuesday 31 Aug. 2021			
0800-0900	Lecture 01.2 Thorax: thoracic cage, wall, boundaries and surface anatomy	Dr. Malak Alghamdi	Virtual
0900-1000	Lecture 01.3 Thorax: internal organization and structures of the lower respiratory system	Dr. Reem Busaeed	
1000-1100	Lecture 01.1 Development Respiratory System and diaphragm	Dr. Yasser Al Harbi	
1100-1200	Lecture 01.4 Overview Emergency Medicine	Dr. Khould Babkair	
1500-1700	Problem Based Learning 1 – Session I **(Male)** (Small Group Session) 10 Groups		In Campus
1500-1700	Problem Based Learning 1 – Session I **(Female)** (Small Group Session) 8 Groups		

Wednesday 01 Sept. 2021			
0800-0900	Lecture 01.5 Mechanics of breathing 1	Dr. Abushouk	Virtual
0900-1000	Lecture 01.6 Mechanics of breathing 2	Dr. Abushouk	
1000-1100	Lecture 01.7 Psychological effects of trauma	Dr. Ahmed Alsaleh	
1100-1300	Basic & Clinical Sciences 01.1 Histology of Airways	Mr. Abdullah Al Garman	
1400-1500	Lecture 01.8 The gas exchange unit: function	Dr. Abushouk	
1500-1600	Lecture 01.9 Respiratory symptoms and signs	Dr. Banna	
1600-1700	MRES: Lecture: Introduction to Medical Research I	Dr. Alaa Althubaiti (Female Side) Dr. Abdullah Awadh (Male side)	
Thursday 02 Sept. 2021			
0800-1000	Basic & Clinical Sciences 01.2 Anatomy of thoracic walls, lower respiratory tract G1	Dr. Reem + Dr. Malak	In Campus Anatomy Lab & Histology Lab
	Basic & Clinical Sciences 01.2 Anatomy of thoracic walls, lower respiratory tract G2		
1000-1200	Basic & Clinical Sciences 01.2 Anatomy of thoracic walls, lower respiratory tract G3		
1300-1500	Basic & Clinical Sciences 01.2 Anatomy of thoracic walls, lower respiratory tract G1	Dr. Reem	
	Basic & Clinical Sciences 01.2 Anatomy of thoracic walls, lower respiratory tract G2		
1500-1700	Basic & Clinical Sciences 01.2 Anatomy of thoracic walls, lower respiratory tract G3		
	Basic & Clinical Sciences 01.2 Anatomy of thoracic walls, lower respiratory tract G4		

WEEK 2			
Sunday, 05 Sep 2021			
Assignment: Submission of Interest Questionnaire - Submission to: Ms. Maryam Alotibi under MRES-302 course in Blackboard (Female). Mrs. Alaa Alkathiri under MRES302 course in Blackboard (Male).			
Time	**Session**	**Instructors**	**Type**
0800-1000	Communication Skills: Taking a respiratory history	Dr. Bader Alghamdi	In Campus
1000-1200	Problem Based Learning 1 – Session II		
1000-1200	Problem Based Learning 1 – Session II		
1300-1500	Problem Based Learning 2 – Session I		
1300-1500	Problem Based Learning 2 – Session I		
1500-1700	Communication Skills: Taking a respiratory history	Dr. Bader Alghamdi	
Monday 06 Sep. 2021			
0800 – 0900	Lecture 02.1 Head & Neck: scalp, face, mastication, neck	Dr. Reem Busaeed	Virtual
0900 – 1000	Lecture 02.2 The Carriage of Respiratory Gases by Blood	Dr. Abushouk	
1000 – 1100	Lecture 02.6 Mechanisms in Asthma	Dr. Banna	
1100 – 1200	MRES: Lecture: Guidelines for Choosing Research Supervisor / Completing the Learning contract	Dr. Alaa Althubaiti	
1300 – 1400	Lecture 02.5 Atopy in children	Dr. Loie Goronfolah	
1400 – 1500	Lecture 02.3 Control of Breathing	Dr. Abushouk	
1500-1600	MRES: Lecture: How to Select Research Topic / Formulating Research Question (PICO)	Dr. Israa Malli (Female side) Dr. Awadh(Male side)	
1600-1700	MRES: Lecture: Study Aims and Objectives	Dr. Alaa Althubaiti	
Tuesday 07 Sep. 2021			
0800-1000	Basic & Clinical Sciences 02.4 Head & Neck: scalp, face, mastication, neck G1	Dr. Malak Alghamdi Ms. Juman Al Massad	In Campus Anatomy Lab & Histology Lab
	Basic & Clinical Sciences 02.4 Head & Neck: scalp, face, mastication, neck G2		
1000-1200	Basic & Clinical Sciences 02.4 Head & Neck: scalp, face, mastication, neck G3		
1300-1500	Basic & Clinical Sciences 02.4 Head & Neck: scalp, face, mastication, neck G1	Dr. Juman + Dr. Reem	
	Basic & Clinical Sciences 02.4 Head & Neck: scalp, face,		

	mastication, neck G2		
1500-1700	Basic & Clinical Sciences 02.4 Head & Neck: scalp, face, mastication, neck G3		
	Basic & Clinical Sciences 02.4 Head & Neck: scalp, face, mastication, neck G4		
Wednesday 08 Sept. 2021			
0800-0900	Lecture 02.7 Normal Lung functions	Prof. Fahad Al Hameed	Virtual
0900-1000	Lecture 02.8 Common respiratory illnesses and emergencies in paediatrics	Dr. Mona Dabbagh	
1000-1100	Lecture 02.4 IgE mediated responses	Dr. Awadh	
1300-1500	Problem Based Learning 2 – Session II		in Campus
1300-1500	Problem Based Learning 2 – Session II		
Thursday 09 Sept. 2021			
0800-0900	Lecture 02.9 Bronchodilators and asthma treatment	Dr. Qassem alhakami	Virtual
0900-1000	Lecture 02.10 Normal and Abnormal chest X-ray	Dr. Al Kenawi	
1000-1200	Basic & Clinical Sciences 02.1 Pathology of Airways	Dr. Hatim Maghraby	
1300-1500	Basic & Clinical Sciences 02.2 Breathing	Dr. Abushouk	
1500-1700	Basic & Clinical Sciences 02.3 Spirometry	Dr. Abushouk	

WEEK 3			
Sunday 12 Sept. 2021			
Time	**Session**	**Instructors**	**Type**
1000-1200	Problem Based Learning 3 – Session I		In Campus
1000-1200	Problem Based Learning 3 – Session I		
1300-1500	Clinical Diagnostic Skills: Examination of Respiratory System (Small Groups , Multiple Venues)	Dr. Asif Jafri Dr. Banna	
1300-1500	Academic Counseling (Introductory Meeting) Small Groups	Full Time Faculty	
Monday 13 Sept. 2021			
0800-1000	Communication Skills: Chronic Cough and Dyspnea	Dr. Bader Alghamdi	
1000-1100	Lecture 02. 11 Prevention and awareness of asthma	Dr. Khalid Raddadi	Virtual
1100-1200	Lecture 03.1 Development of Head and Neck	Dr. Yasser Al Harbi	
1300-1500	Seminar (CDT): Road Trauma: Active & Passive Safety		
1500-1600	Lecture 03.2 Head & neck: nose sinuses and mouth	Dr. Bader Khawaji	
1600-1700	Literature Search EBM Literature Search I (Primary Resources – PubMed)	Dr. Hatim Jifree	
Tuesday 14 Sept. 2021			
0800-1000	Basic & Clinical Sciences 03.2 Head & Neck: Nose, Sinuses, Mouth G1	Dr. Bader Khawaji	In Campus Anatomy & Histology Lab
	Basic & Clinical Sciences 03.2 Head & Neck: Nose, Sinuses, Mouth G2		
1000-1200	Basic & Clinical Sciences 03.2 Head & Neck: Nose, Sinuses, Mouth G3		
1300-1500	Basic & Clinical Sciences 03.2 Head & Neck: Nose, Sinuses, Mouth G1		
	Basic & Clinical Sciences 03.2 Head & Neck: Nose, Sinuses, Mouth G2		
1500-1700	Basic & Clinical Sciences 03.2 Head & Neck: Nose, Sinuses, Mouth G3		
	Basic & Clinical Sciences 03.2 Head & Neck: Nose, Sinuses,		

	Mouth G4		
Wednesday 15 Sept. 2021			
0800-0900	Lecture 03.3 Mechanism of hypoxia and dyspnea	Dr. Abushouk	Virtual
0900-1000	Lecture 03.4 Pathophysiology of airways dysfunction in COPD	Dr. Bader Alghamdi	
1300-1500	Problem Based Learning 3 – Session II		in Campus
1300-1500	Problem Based Learning 3 – Session II		
1500-1700	Academic Counseling (Introductory Meeting) Small Groups	Full time Faculty	
1500-1700	Clinical Diagnostic Skills: Examination of Respiratory System (Small Groups , Multiple Venues)	Dr. Asif Jafri Dr. Banna	
Thursday 16 Sept. 2021			
0800-0900	Lecture 03.5 Evidence for Tobacco as a cause of disease	Dr. Khalid Raddadi	Virtual
0900-1000	Lecture 03.6 Smoking related lung disease and smoking cessation	Dr. Khalid Raddadi	
1000-1200	Basic & Clinical Sciences 03.1 Pathology of chronic airflow limitation	Dr. Hatim Maghraby	
1300-1500	Communication Skills: Assessment of patient with asthma	Dr. Sultan Qanash	
1500-1700	Seminar (CDT): Road Trauma: Active & Passive Safety	Dr. Mazraani	

WEEK 4			
Sunday 19 Sept. 2021			
Time	**Session**	**Instructors**	**Type**
0800-1000	Clinical Diagnostic Skill: Assessing peripheral signs of respiratory disease & Clinical Diagnostic Skill: Examination of a Patient with COPD	Dr. Asif Jafri Dr. Bader Al Ghamdi	In Campus
1000-1200	Problem Based Learning 4 – Session I		
1000-1200	Problem Based Learning 4 – Session I		
1300-1500	Procedural Skills : Using a peak flow meter and inhaled medication devices	Dr. Alaa Ghabashi	
1300-1500	Clinical Diagnostic Skill: Assessing peripheral signs of respiratory disease & Clinical Diagnostic Skill: Examination of a Patient with COPD	Dr. Asif Jafri Dr. Banna	
1500-1700	Procedural Skills : Using a peak flow meter and inhaled medication devices	Dr. Alaa Ghabashi	
Monday **20 Sept. 2021**			
0800-0900	Lecture 04.1 Smoking and anesthetic risk	Dr. Maan Kattan	Virtual
1400-1600	Basic & Clinical Sciences 04.2 Blood gas: basic principle of collection and interpretation	Dr. Sultan Qanash	Virtual
1600-1700	Lecture 04.3 Respiratory acid base disorders	Dr. Sultan Qanash	Virtual
Tuesday			
21 Sept. 2021			
0800-0900	Lecture 04.5 Respiratory Failure	Prof. Fahad Al Hameed	Virtual
1100-1300	Problem Based Learning 4 – Session II		in Campus
1100-1300	Problem Based Learning 4 – Session II		
Wednesday **22 Sept. 2021**			
Saudi National Day			
Thursday **23 Sept. 2021**			
Saudi National Day			

WEEK 5			
Sunday 26 Sep, 2021			
Assignment: Submission of Learning Contract + Submission of initial aim/s & objectives to be checked for duplication Submission to: Ms. Maryam Alotibi under MRES-302 course in Blackboard (Female). Mrs. Alaa Alkathiri under MRES302 course in Blackboard (Male).			
Time	**Session**	**Instructors**	**Type**
PM	**Midterm**	Dr. Bader Alghamdi/Dr. Bakhsh	in Campus
1500-1700	Problem Based Learning 5 – Session I		
1500-1700	Problem Based Learning 5 – Session I		
Monday 27 Sept. 2021			
1000-1200	Lecture 05.2 Cranial Nerves	Dr. Reem Busaeed	
1300-1500	Seminar/PPD: Understanding systems and complexity	Dr. Mazraani	
1500-1600	Lecture 05.1 Head & neck: pharynx, larynx and thyroid gland	Dr. Malak Alghamdi	
1600-1700	MRES: Lecture: Proposal Outline	Dr. Alaa Althubaiti	
Tuesday 28 Sept. 2021			
0800-1000	Basic & Clinical Sciences 05.1 Head & Neck: Pharynx, Larynx, Thyroid Gland G1	Dr. Yasser Al Harbi	In Campus Anatomy Lab & Histology Lab
	Basic & Clinical Sciences 05.1 Head & Neck: Pharynx, Larynx, Thyroid Gland G2		
1000-1200	Basic & Clinical Sciences 05.1 Head & Neck: Pharynx, Larynx, Thyroid Gland G3		
1300-1500	Basic & Clinical Sciences 05.1 Head & Neck: Pharynx, Larynx, Thyroid Gland G1		
	Basic & Clinical Sciences 05.1 Head & Neck: Pharynx, Larynx, Thyroid Gland G2		
1500-1700	Basic & Clinical Sciences 05.1 Head & Neck: Pharynx, Larynx, Thyroid Gland G3		
	Basic & Clinical Sciences 05.1 Head & Neck: Pharynx, Larynx, Thyroid GlandG4		
Wednesday 29 Sept. 2021			
0800-0900	Clinical grand rounds: Case Conference	Dr. Amr Al Banna	Virtual
0900-1000	Lecture 04.2 Pathophysiology of interstitial lung disease	Dr. Sultan Qanash	
1000-1100	Lecture 04.4 Interstitial lung diseases	Dr. Sultan Qanash	
1100-1200	Lecture 05.4 Sleep apnea and other Sleep Disorders	Dr. Alaa Ghabashi	

1500-1700	Problem Based Learning 5 – Session II		in Campus
1500-1700	Problem Based Learning 5 – Session II		
Thursday 30 Sept. 2021			
0800-0900	Clinical Diagnostic Skill: Respiratory Examination Revision & Role of Chest Radiograph in the Assessment of a Patient with Respiratory Disease	Dr. Bader Alghamdi	Virtual
0900-1100	Communication Skills: Sleep disordered breathing including obstructive apnea	Dr. Alaa Ghabashi	
1100-1300	Procedural Skills: Oxygen Therapy, Pulse Oximetry and Airway Devices	Dr. Maan Kattan	
1400-1600	Lecture: Viral Respiratory Tract Infections	Dr. Maher Al Ahmadi	
1600-1700	MRES: Lecture: Literature Review	Dr. Israa Malli	

WEEK 6			
Sunday 03 Oct. 2021			
Time	**Session**	**Instructors**	**Type**
0800-1000	Seminar/PPD: Understanding systems and complexity	Dr. Mazraani	Virtual
1000-1200	Other: Physiology Laboratory – Spirometry	Dr. Abushouk	
1500-1700	Problem Based Learning 6 – Session I		In Campus
1500-1700	Problem Based Learning 6 – Session I		
Monday 04 Oct. 2021			
0800-0900	Lecture 06.1 Anatomy of the ear	Dr. Malak Alghamdi	Virtual
0900-1000	Lecture 06.2 Microbiology of pneumonia in Saudi Arabia	Dr. Israa Mali	
1000-1100	Lecture 06.3 Pathogeneses of pneumonia	Dr. Asim Al Saedi	
1100-1200	Lecture 06.4 Management of Pneumonia	Dr. Asim Al Saedi	
1300-1400	Lecture 06.5 Auditory Pathways	Dr. Bader Khawaji	
1400-1500	Lecture 06.6 Head and Neck radiology	Dr. Al Kenawi	
1500-1700	Seminar (CDT): Vaccination in Saudi Arabia	Dr. Abdullah Al Ahmadi	
Tuesday 05 Oct. 2021			
0800-1000	Basic & Clinical Sciences 06.1 Ear G1	Dr. Malak Alghamdi	In Campus Anatomy Lab & Histology Lab
	Basic & Clinical Sciences 06.1 Ear G2		
1000-1200	Basic & Clinical Sciences 06.1 Ear G3		
1300-1500	Basic & Clinical Sciences 06.1 Ear G1	Ms. Juman Al Massad	
	Basic & Clinical Sciences 06.1 Ear G2		
1500-1700	Basic & Clinical Sciences 06.1 Ear G3		
	Basic & Clinical Sciences 06.1 Ear G4		
Wednesday 06 Oct. 2021			
0800-1000	Seminar (CDT): Vaccination in Saudi Arabia	Dr. Abdullah Al Ahmadi	Virtual
1000-1200	Procedural Skills: Ear, Nose and Throat examination	Dr. Dakheelallah Al Mutairi	
1500-1700	Problem Based Learning 6 – Session II		in Campus
1500-1700	Problem Based Learning 6 – Session II		

Thursday 07 Oct. 2021			
0800-0900	Lecture 06.7 Antimicrobial action in respiratory disease	Dr. Qassem alhakami	Virtual
0900-1000	Lecture 06.8 Head and neck clinical anatomy	Dr. Bader Khawaji	
1000-1200	Procedural Skills: Abnormal Pulmonary Function Test (Obstructive)	Dr. Sultan Qanash	
1300-1400	MRES: Lecture: Proposal Background, Study aim/s and objectives	Dr. Alaa Althubaiti	
1400-1500	Lecture 07.7 Diagnosis and management of TB	Dr. Asim Al Saedi	
1500-1700	Other: Physiology Laboratory – FEV / FVC	Dr. Abushouk	

WEEK 7			
Sunday 10 Oct. 2021			
Resubmission of Learning Contract (if required) - Submission to: Ms. Maryam Alotibi under MRES-302 course in Blackboard (Female). Mrs. Alaa Alkathiri under MRES302 course in Blackboard (Male).			
Time	**Session**	**Instructors**	**Type**
0800-1000	Tutorial: Feedback on learning Contract	Research unit members (TBD)	Virtual
1000-1100	Literature Search II (Secondary Resources)	Dr. Hatim Jifree	Virtual
1300-1500	Problem Based Learning 7 – Session I		In Campus
1300-1500	Problem Based Learning 7 – Session I		
Monday 11 Oct. 2021			
0800-0900	Lecture 07.1 Cough	Dr. Bader Alghamdi	Virtual
0900-1000	Lecture 07.2 Cystic fibrosis as a genetic disorder Genetic	Dr. Aiman Shawli	
1000-1100	Lecture 07.3 Cystic Fibrosis as a multisystem disease	Dr. Aiman Shawli	
1100-1200	Lecture 07.8 Pulmonary and extra-pulmonary TB	Dr. Asim Al Saedi	
1300-1500	Basic & Clinical Sciences: 07.1 Bacteriology of mycobacterium tuberculosis	Dr. Israa Mali	
1500-1700	Seminar/PPD: Sensitivity issues related to spread and prevention of TB	Dr. Abdullah Al Ahmadi	
Tuesday 12 Oct. 2021			
0800-0900	Lecture 07.4 Pathophysiology of TB	Dr. Amr Al Banna	
0900-1000	Lecture 07.6 Antituberculous Drugs	Dr. Qassem alhakami	
1000-1100	Lecture 07.5 Immunology of bacterial infections	Dr. Awadh	
1200-1400	Seminar/PPD: Sensitivity issues related to spread and prevention of TB	Dr. Abdullah Al Ahmadi	
1500-1700	Seminar (CDT): Screening for and protection against TB	Dr. Asim Al Saedi	
Wednesday 13 Oct. 2021			
0800-0900	MRES: Lecture: Indexing / Referencing	Dr. Israa Mali	Virtual
0900-1000	MRES: Lecture: Ethics in Clinical Research	Dr. Hani Mufti	
1000-1100	Lecture 05.3 Physiology of sleep	Dr. Sultan Qanash	
1300-1500	Problem Based Learning 7– Session II		In Campus
1300-1500	Problem Based Learning 7– Session II		
1500-1700	Problem Based Learning 8– Session I		
1500-1700	Problem Based Learning 8– Session I		

Thursday 14 Oct. 2021			
0800-0900	Lecture: Prevention and Control Tract Infections	Dr. Maher Al Ahmadi	Virtual
0900-1100	Communication Skills: History in respiratory tract infections	Dr. Asim Al Saedi	
1100-1200	Lecture 08.1 Multidisciplinary Care in Cancer	Dr. Turki Al Fayea	
1300-1400	Lecture 08.2 Paraneoplastic Effects	Dr. Turki Al Fayea	
1400-1500	Lecture 08.3 Lung Cancer	Dr. Turki Al Fayea	
1500-1700	Seminar (CDT): Screening for and protection against TB	Dr. Asim Al Saedi	

WEEK 8			
Sunday 17 Oct. 2021			
Time	**Session**	**Instructors**	**Type**
	Long Weekend		
Monday 18 Oct. 2021			
	Long Weekend		
Tuesday 19 Oct. 2021			
0800-1000	Basic & Clinical Sciences 07.2: Revision of Anatomy G1	Ms. Juman Al Massad Dr. Reem Busaeed Dr. Malak Alghamdi Dr. Bader Khawaji Dr. Yasser Al Harbi	In Campus
	Basic & Clinical Sciences 07.2: Revision of Anatomy G2		
1000-1200	Basic & Clinical Sciences 07.2: Revision of Anatomy G3		
1300-1500	Basic & Clinical Sciences 07.2: Revision of Anatomy G1		
	Basic & Clinical Sciences 07.2: Revision of Anatomy G2		
1500-1700	Basic & Clinical Sciences 07.2: Revision of Anatomy G3		
	Basic & Clinical Sciences 07.2: Revision of Anatomy G4		
Wednesday 20 Oct. 2021			
0800-1000	Basic & Clinical Sciences 08.1: Pathology of Lung Cancer	Dr. Hatim Maghraby	Virtual
1300-1500	Problem Based Learning 8– Session II		In Campus
1300-1500	Problem Based Learning 8– Session II		
Thursday 21 Oct. 2021			
0800-1000	Other: Physiology Laboratory – Training	Dr. Abushouk	Virtual
1000-1200	Clinical Diagnostic Skill: Clinical Assessment in People with Lung Cancer	Dr. Turki Al Fayea	
1300-1400	MRES: Lecture: (Methods) Study Setting / Subjects	Dr. Alaa Althubaiti	
1400-1500	MRES: Lecture: (Methods) Study Design	Dr. Israa Malli	
1500-1700	Basic & Clinical Sciences 04.3 Abnormal Pulmonary Function Test (restrictive lung disease	Dr. Sultan Qanash	

WEEK 9		
Sunday 24 Oct 2021		
Time	**Session**	**Type**
TBA	**Final**	In Campus
Wednesday 27-Oct		
TBA	**OSPE**	In Campus
TBA	**CRE**	

PBL Tutorial Groups

SN	Name	Campus ID	PBL Group
1	Duaa Abdulrahman Alghamdi	42-2-2-2-0005	A
2	Shaza Dheya S Alothmany	41-1-2-2-0127	A
3	Orjwan Salah Obaid Badghaish	41-1-2-2-0006	A
4	Shahad Kamal H Elyas	41-1-2-2-0136	A
5	Renad Fayez S Alharthy	41-1-2-2-0109	A
6	Shahad Rafed Saad Al-Marwan	41-1-2-2-0131	A
7	Lamar Hattan M Kuwaity	41-1-2-2-0168	A
8	Wasan Sami Saleem Al Mahmadi Alharbi	41-1-2-2-0226	A
9	Joud Majed M Alharthy	41-1-2-2-0046	A
10	Danah Mansour S Altewairgi	41-1-2-2-0055	A
11	Lama Abdulhamid H Almuraee	41-1-2-2-0170	A

Name	Campus ID	PBL Group
Montaha Abdullah Aoayd Almatrafee	41-1-2-2-0196	B
Rimas Abdulrahman A Asiri	41-1-2-2-0105	B
Abeer Fahd Abdul Daeem Alharbi	41-1-2-2-0152	B
Revan Turki Betahi Al Malki	41-1-2-2-0095	B
Newaer Asaad Bin Dakhil-Allah Alsobehi	41-1-2-2-0211	B
Khuzama Mamdouh S Alaseeri	41-1-2-2-0053	B
Nawarah Mohammed Fawzi Allabban	42-2-2-2-0003	B
Sarah Jamaan S Alzahrani	41-1-2-2-0110	B
Danah Mohammed Saleh S Aljahdali	41-1-2-2-0056	B
Arjwan Omar A Alamoudi	41-1-2-2-0007	B
Renad Khalid M Zabani	41-1-2-2-0107	B

SN	Name	Campus ID	PBL Group
1	Hala Emad A Danish	41-1-2-2-0047	C
2	Sultanah Anwar A Boraie	41-1-2-2-0120	C
3	Orjwan Hashem M Ateeq	41-1-2-2-0008	C
4	Yara Mohammed M Gadhiem	41-1-2-2-0232	C
5	Wasan Saleh A Alzahrani	41-1-2-2-0227	C
6	Norah Abdulkareem Ali Alkahtani	41-1-2-2-0202	C
7	Leen Abdulrahman K Niaz	41-1-2-2-0180	C
8	Lama Waleed A Almansouri	41-1-2-2-0173	C
9	Arwa Hassan Saleh Attia Al-Humrani Al-Ghamdi	41-1-2-2-0009	C
10	Areej Bader Khisham Alturjmi Alsolami	41-1-2-2-0010	C
11	Samiyah Saeed Jarallah Deifallah Al-Zebadi Al-Hart	41-1-2-2-0116	C

SN	Name	Campus ID	PBL Group
1	Haneen Khalid A Khadawardi	41-1-2-2-0049	D
2	Sarah Meteb F Alsharif	41-1-2-2-0114	D
3	Lamar Hassan S Aboaljadiel	41-1-2-2-0167	D
4	Taif Faisal S Alkhatabi	41-1-2-2-0148	D
5	Wed Mazin E Ismail	41-1-2-2-0221	D
6	Amira Hamed Tawelaa Al-Bluwi	41-1-2-2-0034	D
7	Jana Jaber Ali Hareesi	41-1-2-2-0044	D
8	Layla Rabah M Mulla	41-1-2-2-0179	D
9	Ghaida Essa A Alharbi	41-1-2-2-0158	D
10	Reeman Yahya Wasil	42-2-2-2-0004	D
11	Shaden Khalid Bahatheq	41-1-2-2-0124	D

SN	Name	Campus ID	PBL Group
1	Shayma Anwar H Aljifre	41-1-2-2-0139	E
2	Rihf Talal S Shirbiny	41-1-2-2-0084	E
3	Sadeem Ahmeed Abdelralman Bahkal	41-1-2-2-0118	E
4	Manar Faleh Shainanal_Mashaly Algahtany	41-1-2-2-0193	E
5	Sarah Mohammed O Khuraybah	41-1-2-2-0115	E
6	Anfal Aman Z Felimban	41-1-2-2-0023	E
7	Raghad Abdulhafez Abdulkarem Rajab	41-1-2-2-0066	E
8	Razan Abdullah R Filfilan	41-1-2-2-0063	E
9	Faizah Mohammad Jamal A Makhdoum	41-1-2-2-0160	E
10	Lama Abdulkader M Tonkal	41-1-2-2-0171	E
11	Dania Farid Mohammed hussein	42-2-2-2-0002	E

SN	Name	Campus ID	PBL Group
1	Lama Nasser Mohammed Alghamdi	41-1-2-2-0165	F
2	Shatha Saleh Rezeq Alshoybry Alqurashy	41-1-2-2-0125	F
3	Reem Omar Mohammed Nugheys	41-1-2-2-0100	F
4	Rose Abdullah A Alraddadi	41-1-2-2-0089	F
5	Aasal Ahmed H Alnafisi	41-1-2-2-0014	F
6	Maya Saeed A Baselm	41-1-2-2-0185	F
7	Amal Omar Mohammad Albaity	41-1-2-2-0032	F
8	Fatimah Mohammed S Asiri	41-1-2-2-0159	F
9	Enar Abdalmagtane Geth Al Mzroae	41-1-2-2-0028	F
10	Nouf Abdullah Safar Tofil Al-Githami Alotibi	41-1-2-2-0205	F
11	Aljory Saeed Al Eid	42-2-2-2-0001	F
12	Emtenan Majdi A Bukhari	41-1-2-2-0020	F

SN	Name	Campus ID	PBL Group
1	Lujain Abdulrazaq A Bokhari	41-1-2-2-0164	G
2	Sarah Ali M Alqhtani	41-1-2-2-0112	G
3	Shahd Mohamd Mossa Albelady	41-1-2-2-0137	G
4	Wardah Abdullah A Alghamdi	41-1-2-2-0225	G
5	Razan Ayed N Albaqmi	41-1-2-2-0062	G
6	Ragad Abdulrhman Abdullah Alsofiany	41-1-2-2-0068	G
7	Rawnaa Nawaf A Haqqi	41-1-2-2-0092	G
8	Rand Ayman F Maddah	41-1-2-2-0080	G
9	Renad Iyad A Katib	41-1-2-2-0106	G
10	Youmn Wail Saleh Abdulhadi	41-1-2-2-0234	G
11	Mai Sultan Helal Al-Najeebi Al-Huthali	41-1-2-2-0198	G
12	Taif Mohammed Ali Alamri	41-1-2-2-0149	G

SN	Name	Campus ID	PBL Group
1	Raghad Ahmed M Alkharouby	41-1-2-2-0065	H
2	Razan Osama A Bawazir	41-1-2-2-0061	H
3	Leen Mohammed Alghamdi	41-1-2-2-0181	H
4	Rozan Mohammed Saleh Abdali	41-1-2-2-0091	H
5	Roza Khalid Ateeq Alharbi	41-1-2-2-0090	H
6	Saleha Mohammed Faiz Al Mahdawi	41-1-2-2-0143	H
7	Athoub Nasser A Kadasa	41-1-2-2-0153	H
8	Amal Farraj A Albaqami	41-1-2-2-0021	H
9	Reem Blgasem A Alqarni	41-1-2-2-0097	H
10	Hannah Ghazi J Abid	42-2-2-2-0006	H
11	Wejdan Ahmed Hassan Hubayni	41-1-2-2-0217	H
12	Lama Hamoud Mohammad Ateeq Al-Subhi	41-1-2-2-0169	H

Resource People

NAME	SECTION	E-MAIL
Prof. Fahad Al Hameed	Professor , Medicine/Critical Care	HameedF@ngha.med.sa
Dr. Dakheelallah Al Mutairi	Assistant Professor Surgery/ ENT	ArdhiDM@ngha.med.sa
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Dr. Aiman Shawli	Assistant Professor , Pediatric	shawliai@ngha.med.sa
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Dr. Hatim Al Jifree	Assistant Professor Obstetrics and Gynecology	JifreeHM@ngha.med.sa
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Dr. Nadia Mazraani	Assistant Professor, Family Medicine	MazraaniNA@ngha.med.sa
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Dr. Abdulkader Alkenawi	Assistant Professor Radiology	KenawiA@ngha.med.sa
Dr. Khalid Raddadi	Assistant Professor ,Family Medicine	'dkraddadi@gmail.com'
Dr. Abdullah Ahmadi	Assistant Professor, Family Medicine	AhmadiAM@ngha.med.sa
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Dr. Malak Al Ghamdi	Assistant Professor, Anatomy	Alghamdima2@NGHA.MED.SA
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